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(54) SURFACE MODIFYING BONE PROTHESIS MEMBER AND METHOD FOR MANUFACTURING THE SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a surface modifying bone prosthesis member for safely applying to a section where a large shear intensity is added by providing a three-dimensional surface structure, of which ingrowth of a newly generated bone quickly grows and of which density of space occupancy becomes large.

SOLUTION: This surface modifying bone prosthesis member comprises in such a manner that a mixed material, CM chitin sponge 3, which is mixed with CM chitin, a granule of calcium phosphate such as HAP, TCP, and AWGC, is filled into space of a three-dimensional madreporite, beads block 1, formed from a non-absorbent material for an organism such as a wire mesh and a beads-combined body. A method for manufacturing the prosthesis member is showed in such a way that the three-dimensional madreporite 1 or a bone prosthesis member F having the madreporite 1 at a desired part of the surface is soaked into a CM chitin aqueous solution and taken out to rapidly cool.

